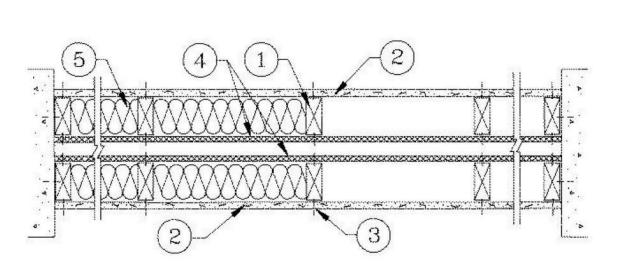
Design No. U341 September 23, 2014

Bearing Wall Rating — 1 Hr.

Finish Rating — Min 20 min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in.

b. Steel Framing Members* — Resilient sound isolation clip used to attach furring channels

drywall screw through the center hole. Furring channels are friction fitted into clips.

7. Wall and Partition Facings and Accessories* — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide

panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-510.

accordance with manufacturer's recommendations. When the QR-510 panel is installed between the wood

framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be

installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified

8. Non-Bearing Wall Partition Intersection — (Optional) Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud

minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition

wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2

nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the

by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-

Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL

Certification (such as Canada), respectively.

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GEORGIA-PACIFIC PANEL PRODUCTS L L C — Types FiberBrace or QuietBrace

following exterior facings is to be applied over the sheathing:

6. Exterior Facings — Installed in accordance with the manufacturer's installation instructions. One of the

A. Vinyl Siding — Molded Plastic* — Contoured rigid vinyl siding having a flame spread value

B. Particle Board Siding — Hardboard exterior sidings including patterned panel or lap siding.

composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-

108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.

D. Cementitious Stucco — Portland cement or synthetic stucco systems with self-furring metal

rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall

ties attached over sheathing to wood studs with 8d nail per tie: ties spaced not more than each

sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick

bearing the UL Classification Marking, attached over sheathing and finished with coating system,

or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions.

H. Fiber-Cement Siding — Fiber-cement exterior sidings including smooth and patterned panel

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8

Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of

channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min, 7/16 in, long at the midpoint of the overlap, with one screw on each flange of the channel.

b. Steel Framing Members* — Used to attach furring channels (Item 7A) to studs . Clips spaced

48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center

grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide

furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

7A. Steel Framing Members (Optional, Not Shown)* — Furring channels and Steel Framing Members as

in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in

No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining

F. Exterior Insulation and Finish System (EIFS) — Nom 1 in. Foamed Plastic* insulation

See Foamed Plastic (BRYX and CCVW) categories for names of Classified companies.

G. Siding — Aluminum or steel siding attached over sheathing to studs.

Gypsum board attached to furring channels as described in Item 2.

7. Steel Framing Members — (Optional, Not Shown)* — Furring Channels and Steel Framing Members as

E. Brick Veneer — Any type on nom 4 in. wide brick veneer. When brick veneer is used, the

C. Wood Structural Panel or Lap Siding — APA Rated Siding, Exterior, plywood, OSB or

See Molded Plastic (BTAT) category in the Building Materials Directory for names of

lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

(Item 6Ba) to studs. Clips spaced 24 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse

from joint edge.

equal to the depth of the bearing wall.

HORIZONTAL SECTION 1. Wood Studs — Nom 2 by 4 in., spaced 24 in. OC max. Cross braced at mid-height and effectively firestopped at top and bottom of wall. No min. air space between stud rows except to accommodate attachment of sheathing, where required. See items 4 and 5.

2. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick 4 ft wide. Gypsum board or lath applied horizontally or vertically, unless specified below, and nailed to study and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in, long. 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails.

When Steel Framing Members* (Item 6-6B) are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When used in widths other than 48 in., gypsum board to be installed horizontally.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

See General Information for Fire-resistance Ratings - ANSI/UL 263

CGC INC (View Classification) — CKNX.R19751 CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

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BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for

Canada

Design No. U356

June 27, 2014

(Exposed to Fire on Interior Face Only)

Bearing Wall Rating — 1 Hr

Finish Rating — 23 Min or 25 Min (See Item 2C)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress

Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor

shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL

Certification (such as Canada), respectively.

HORIZONTAL SECTION

UL U356-1

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are

overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to interior side of

studs. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall

7B. Steel Framing Members* — (Optional, Not Shown) - Furring channels and Steel Framing Members as

7C. Steel Framing Members — (Optional, Not Shown)* - Furring channels and resilient sound isolation clip as

KINETICS NOISE CONTROL INC — Type Isomax.

attached to furring channels as described in Item 2.

PLITEQ INC — Type Genie Clip

center hole. Furring channels are friction fitted into clips.

described below:

end of overlap. Two layers of gypsum board attached to furring channels as described in Item 2.

screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, space

adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv

overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long

24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of

at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board

b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced

48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to

6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in.

studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped

and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 2.

Side joint furring channels shall be attached to study with RESILMOUNT Sound Isolation Clips -

steel wire near each end of overlap. As an alternate, ends of adjoining channels may be

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

UNITED STATES GYPSUM CO

CERTAINTEED GYPSUM INC — Type C or Type X

THAI GYPSUM PRODUCTS PCL — Type C or Type X

USG MEXICO S A DE C V

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

2A. Gypsum Board* — (As an alternate to Item 2, not shown) - Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 5C. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-530 (finish rating 23

2B. Gypsum Board* — (As an alternate to Item 2, not shown) - Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified companies listed below shown in the Gypsum Board* (CKNX) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.

2C. Gypsum Board* — (As an alternate to Item 2, not shown) - 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C

2D. Gypsum Board* — (As an alternate to Items 2, 2A, 2B and 2C) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 2. When used in widths of other than 48 in., gypsum boards are to be GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

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2E. Gypsum Board* — (As an alternate to Items 2 through 2D) - 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 2. GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board.

2F. Gypsum Board* — (As an alternate to Items 2 through 2E) - Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6. NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

2G. Gypsum Board* — (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES.

2H. Gypsum Board* — (As an alternate to Items 2 through 2G) - Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6. CERTAINTEED GYPSUM INC — Type SilentFX

21. Wall and Partition Facings and Accessories* — (As an alternate to Items 2 through 2H) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2J. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 2) - 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 2, spaced 24 in. OC. Outer layer attached per Item 2.

NATIONAL GYPSUM CO — Type FSW. 3. Joints and Nailheads — Gypsum board joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

4. Sheathing — (Optional) — Septum may be sheathed with min 7/16 in. thick wood structural panels min grade

"C-D" or "Sheathing" or min 1/2 in. thick Mineral and Fiber Boards*. See Mineral and Fiber Boards (CERZ) category for names of Classified companies.

5. Batts and Blankets* — 3-1/2 in. max thickness glass or mineral fiber batt insulation. Optional when sheathing (Item 4) is used on both halves of wall.

See Batts and Blankets (BZJZ) category for list of Classified companies.

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

Type-X, Soffit-Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C

CERTAINTEED GYPSUM INC — Type C or Type X

THAI GYPSUM PRODUCTS PCL — Type C or Type X

0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

PANEL REY S A (View Classification) — CKNX.R21796

CGC INC

UNITED STATES GYPSUM CO

USG MEXICO S A DE C V

Type-X,Soffit-Type X

5A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. U S GREENFIBER L L C — INS735& INS745 for use with wet or dry application, INS510LD, INS515LD.

5B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose insulation material. The fiber is applied with water to interior

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

2A. **Gypsum Board*** — (As an alternate to Item 2, not shown) - Any 5/8 in. thick 4 ft wide gypsum panels that are

eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified Companies listed below shown in

the Gypsum Board* (CKNX) category. Applied vertically and attached to studs and bearing plates with 1-1/4 in.

long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of

2B. Gypsum Board* — (As an alternate to Item 2, not shown) - 5/8 in. thick 4 ft wide gypsum panels applied

ACADIA DRYWALL SUPPLIES LTD — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-WRS.

ACADIA DRYWALL SUPPLIES LTD — 5/8 Type X, Type Blueglass Exterior Sheathing

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-WRS.

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vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel

GEORGIA-PACIFIC GYPSUM L L C — Types X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing

2C. Gypsum Board* — (As an alternate to Item 2, not shown) - For Use with Item 5A only - 5/8 in. thick 4 ft wide

gypsum panels applied horizontally and attached to studs and bearing plates with 1-1/4 in. long Type W coarse

thread gypsum panel steel screws spaced a max 8 in. OC, with last screws 1 in.and 4 in. from edges of board.

GEORGIA-PACIFIC GYPSUM L L C — Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing

2D. Gypsum Board* — (As an alternate to Item 2) - Not to be used with item 7.5/8 in. thick, 4 ft. wide, paper

surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long,

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

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surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. NU-WOOL CO INC — Cellulose Insulation

5C. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 2A. Use of Sheathing, Item 4, does not nullify requirement of Item 5C for use with Item 2A) — Glass fiber insulation, nom 3-1/2 in, thick, min, density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of

5D. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³. INTERNATIONAL CELLULOSE CORP — Celbar-RL

6 Steel Framing Members (Optional, Not Shown)* — Furring channels and Steel Framing Members as

A. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in, deep, spaced 24 in, OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws,

min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 2. B. Steel Framing Members* — Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL INC — Types RSIC-1, RSIC-1 (2.75).

6A. Steel Framing Members* — (Optional, Not Shown) - Furring channels and Steel Framing Members as

described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip

6B. Steel Framing Members — (Optional, Not Shown)* — Furring channels and resilient sound isolation clip as

described below:

as described in Item 2.

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 2. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips -Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum UL U341-5

2E Gypsum Board* — (As an alternate to Items 2 through 2D) — Nominal 5/8 in. thick, 4 ft wide panels, secured

2F. Gypsum Board* — (As an alternate to Item 2) - Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper

surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long,

2G. Wall and Partition Facings and Accessories* — (As an alternate to Items 2 through 2F) — Nominal 5/8 in.

3. Joints and Nailheads — (Not Shown) — Wallboard joints covered with tape and joint compound. Nail heads

4. Batts and Blankets* — Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities

between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber

insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal

See Batts and Blankets* (BKNV) Category in the Building Materials Directory and Batts and Blankets* (BZJZ)

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

Category in the Fire Resistance Directory for names of Classified Companies.

0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC.

thick, 4 ft wide panels, secured as described in Item 2.

CERTAINTEED GYPSUM INC — Type SilentFX

THE PRESTON PARTNERSHIP, LLC A MULTI-DISCIPLINARY DESIGN FIRM

115 PERIMETER CENTER PLACE, SUITE 950 ATLANTA, GEORGIA 30346 TELEPHONE: 770 396 7248 FAX: 770 396 2945

SOUTH TERRACES

WWW.THEPRESTONPARTNERSHIP.COM



RESERVE AT THE **BALLPARK**

4A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions

supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions U S GREENFIBER L L C — INS735& INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

4B. Fiber, Sprayed* — As an alternate to Item 4 and 4A — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft 3.

NU-WOOL CO INC — Cellulose Insulation 4C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied

with the product. The minimum dry density shall be 4.30 lbs/ft³. INTERNATIONAL CELLULOSE CORP — Celbar-RL 5. Wood Structural Panel Sheathing — Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or

"Sheathing" . Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

5A. Mineral and Fiber Boards* — As an alternate to Item 5 - Min 1/2 in. thick, 4 ft wide sheathing, installed vertically to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.

UL U356-4

AKA REVEL AT THE 2885 CRESCENT PKWY SMYRNA, GA 30080

REALTY PARTNERS

ATLANTIC REALTY **PARTNERS**

3438 PEACHTREE ROAD **SUITE 1425** ATLANTA, GA 30326

ISSUES & #\rightarrow - REVISIONS ____ PERMIT SET 05/22/2017 3 BUILDING PERMIT 07/25/2017

UL ASSEMBLIES

BUILDING PERMIT RE-SUBMISSION

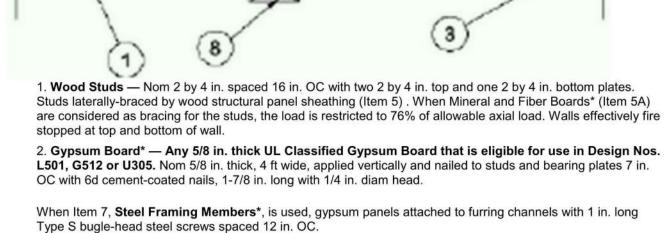
Гуре A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. b. Steel Framing Members* — Resilient sound isolation clip used to attach furring channels (Item 7Ca) to studs. Clips spaced 16 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R 8. Non-Bearing Wall Partition Intersection — (Optional) Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partitio wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one nonbearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum

drywall screw through the center hole. Furring channels are friction fitted into clips.

equal to the depth of the bearing wall. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cU Last Updated on 2014-06-2 Certification (such as Canada), respectively.

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When Item 7A, 7B, or 7C Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196 BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

All joints in face layers staggered with joints in base layers.

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

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CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

methods of construction.

Only products which bear UL's Mark are considered Certified.

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ONLINE CERTIFICATIONS DIRECTORY Design No. U371 **BXUV.U371** Fire Resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

Certified products, equipment, system, devices, and materials, Authorities Having Jurisdiction should be consulted before construction.
 Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.

• When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate

. Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL

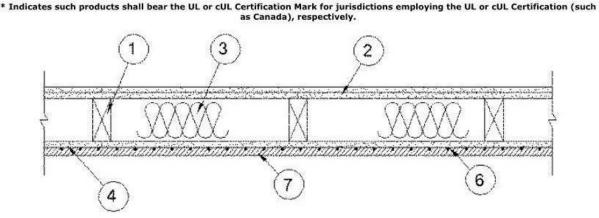
BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada ee General Information for Fire-resistance Ratings - ANSI/UL 263 See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

> Design No. U371 January 10, 2017 Bearing Wall Rating — 2 Hr.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — Se

Finish Rating — 41 Min.



1. Wood Studs - Nom 2 by 4 in. spaced 16 in. OC, effectively cross-braced

2. Gypsum Board* — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1/4 in, long Type S steel screws spaced 12 in, OC. Outer layer attached to study over inner layer with 2 in, long Type S teel screws spaced 12 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joi between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, nailheads covered Classified veneer baseboard. Joints reinforced, Wallboard other than 48 in, wide must be applied horizontally NATIONAL GYPSUM CO - Types FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-8, FSW-G, FSW-G, FSMR-C, FSL, SoundBreak

3. Batts and Blankets* — Min 3 in. thick mineral wool batt insulation friction fit between studs. THERMAFIBER INC — Type SAFB

4. Gypsum Board* - 5/8 in. thick exterior gypsum sheathing, 48 in. wide sheets. Attached directly to study horizontally or vertically with 1-3/4 in. long, 11d, 7/16 in. diam flathead galv roofing nails spaced 8 in. OC or 2 in. long Type S steel screws spaced 8 in. OC. When wood structural panel sheathing (Item 5) is used gypsum sheathing to be installed over wood structural panel sheathing. Gypsum sheathing attached to studs, through wood sheathing, horizontally or vertically with 2-1/4 in. long, 11d, 7/16 in. diam flathead galv roofing nails spaced 8 in. OC or 2-1/2 in. long Type S steel screws spaced 8 in. OC Vertical joints located over studs and staggered between adjacent rows. NATIONAL GYPSUM CO — Types FSK, FSMR-C, FSW, FSW-3, FSW-6, FSW-8

5. Wood Structural Panel Sheathing — (Optional, Not Shown, for use with Item 4) - Nom 15/32 in. thick, 4 ft wide, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. 6. **Prefurred Stucco Netting** — Nom 1-1/2 in. by 1-1/2 in., min 17 MSG galvanized steel netting applied over gypsum sheathing to wood studs with 1-1/4 in. by 1 in. steel staples spaced 7 in. OC. (Note If optional wood structural panel eathing is used, fastener length must be increased such that penetration into framing members shall be not less than

through the gypsum sheathing with 1-1/4 in. long Type S lath head steel screws spaced 7 in. OC. (Note If optional wood structural panel sheathing is used, fastener length must be increased such that penetration into framing members shall be 7. **Stucco** — Portland cement type stucco mixed at a rate of 3 parts sand to 1 part portland cement to 1.7 liters water. Thickness of stucco to be min 3/4 in. as measured to face of netting or lath. 7A. Brick Veneer — As an alternative to Items 6 and 7, any type of 4 in, wide brick may be used. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 1-1/4 in. Type S steel screws spaced not mo than each forth course and a max 24 in. OC horizontally. (Note If optional wood structural panel sheathing is used, fastener length must be increased such that penetration into framing members shall be not less than $3/4\ in.)$ 8. Cementitious Backer Units* — (Optional Item Not Shown - For Use On Face Of 2 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing

6A. Metal Lath - As an option to the stucco netting, min 1.7 lb/sg yd expanded steel lath fastened to the wood studs

9. Wall and Partition Facings and Accessories* — (Optional — Not Shown - For Use On Face of 2 Hr Systems With All Standard Items Required) — Adhered stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier, installed in accordance with the manufacturers installation instructions, and meeting the requirements of local code **ELDORADO STONE OPERATIONS L L C** — Type Eldorado Stone

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification Last Updated on 2017-01-10

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U371-1

U371-2

SHEET TITLE

UL U356-5

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-1 (2.75).

described below:

described below:

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